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NOTES AND LITERATURE.

BOTANY.

The Journals.—*Bulletin of the Torrey Botanical Club*, March :—Rydberg, "Studies on the Rocky Mountain Flora"; House, "Two New Species of *Convolvulus* from the Western United States"; Harper, "Phytogeographical Explorations in the Coastal Plain of Georgia in 1903."

Bulletin of the Torrey Botanical Club, April :—Evans, "New or Noteworthy *Hepaticæ* from Florida"; Eastwood, "New Species of Western Plants"; Maxon, "A New *Botrychium* from Jamaica"; Cushman, "Notes on the *Zygospores* of Certain New England *Desmids*, with Descriptions of a few New Forms."

Bulletin of the Torrey Botanical Club, May :—Toumey, "Notes on the Fruits of some Species of *Opuntia*"; Howe, "Phycological Studies—I. New *Chlorophyceæ* from Florida and the Bahamas"; House, "Notes on New Jersey Violets"; Britton, "Bryological Notes—II."

Bulletin of the Torrey Botanical Club, June :—Evans, "*Hepaticæ* of Puerto Rico—V. *Ceratolejeunea*"; Underwood, "A Summary of Charles Wright's Explorations in Cuba"; Kauffman, "The Genus *Cortinarius*—A Preliminary Study"; Berry, "A *Ficus* confused with *Proteoides*."

The Fern Bulletin, April :—Eggleston, "The Fern Flora of Vermont"; Clute, "What Constitutes a Species in the Genus *Isoetes*"; Flett, "Observations on *Lycopodium selago-lucidulum*"; Parish, "*Ophioglossum californicum* in Central California"; Clute, "The Round-leaved Maiden Hair"; Eaton, "Notes on *Isoetes*"; Taylor, "How and where Ferns grow in Southwest Georgia."

Journal of Mycology, March :—Morgan, "The Genus *Gibellula*"; Arthur, "Cultures of *Uredineæ* in 1904"; Kellerman and Ricker, "First Supplement to 'New Genera of Fungi published since the Year 1900,' with Citation and Original Descriptions"; Kellerman, "Notes from Mycological Literature—XIV."

Journal of the New York Botanical Garden, April: — Howe, "Some of the Coralline Seaweeds in the Museum"; Nash, "The Crested Orchid."

Journal of the New York Botanical Garden, May: — Britton, "Explorations in the Bahamas"; Cowell, "Report on Explorations in Panama."

Journal of the New York Botanical Garden, June: — MacDougal, "Botanical Explorations in Arizona, Sonora, California, and Baja California."

Journal of the New York Botanical Garden, July: — Murrill, "A Trip to Cuba"; Hollick, "The Preservation of Plants by Geologic Processes."

The Ohio Naturalist, April: — Claassen, "Key to the Liverworts recognized in the Sixth Edition of Gray's 'Manual of Botany'"; Smith, "Key to the Ohio Elms in the Winter Condition"; Gleason, "Notes from the Ohio State Herbarium — III"; Riddle, "Development of the Embryo-sac and Embryo of *Staphylia trifoliata*."

The Ohio Naturalist, May: — Schaffner, "The Nature of the Reduction Division and Related Phenomena"; Fischer, "A List of Ohio Plants with Compound Leaves"; York, "The Agar-agar and Paraffin Method for Imbedding Plant Tissues"; Cushman, "A few Ohio Desmids."

The Ohio Naturalist, June: — Development of the Embryo Sac and Embryo of *Batrachium longirostris*"; S[chaffner], "Leaf Expansion of Trees and Shrubs"; Schaffner, "Key to the Genera of Ohio Woody Plants based on Leaf and Twig Characters."

The Plant World, March: — Nash, "A Trip to the Inaguas"; Arthur, "On the Nomenclature of Fungi having Many Fruit-forms"; Streeter, "A Treasure Spot of Wild Flowers"; Wiegand, "The Biology of Buds and Twigs in Winter."

The Plant World, April: — Nash, "A Trip to the Inaguas (Conclusion)"; Arthur, "On the Nomenclature of Fungi having Many Fruit-forms (Conclusion)"; Bailey, "Early Wild Flowers"; Shaw, "Botanizing in British Columbia."

The Plant World, May: — Greene, "The Earliest Local Flora [Thalius, 1588]"; Beal, "The Gas Plant."

Rhodora, April: — Fernald and Knowlton, "*Draba incana* and its Allies in Northeastern America"; Woodward, "Some Plants Rare

or hitherto Unrecorded in Connecticut"; Harper, "Coastal-plain Plants in New England"; Terry, "*Hieracium murorum* in Massachusetts"; Meader, "*Actinella odorata* in Maine."

Rhodora, May:—Fernald, "The North American Species of *Eriophorum*—I"; Haberer, "Plants of Oneida County, N. Y., and Vicinity—I"; Collins, "*Chlorochytrium lemne* in America"; Terry, "*Dicksonia pilosiuscula* forma *schizophylla* in Vermont"; Churchill, "Three Plants New to the Flora of Vermont."

Rhodora, June:—Robinson, "Two Varieties of *Sisymbrium officinale* in America"; Gilman, "Two Ferns New to the Flora of Vermont"; Leavitt and Spalding, "Parthenogenesis in *Antennaria*"; Haberer, "Plants of Oneida County, N. Y., and Vicinity—I (Continued)"; Hervey, "*Silene conica* in New England"; Cushman, "A Contribution to the Desmid Flora of New Hampshire"; Tilton, "*Scrophularia leporella* at Willoughby."

Rhodora, July:—Chrysler, "Reforestation at Woods Hole, Mass.—a Study in Succession"; Fernald, "The North American Species of *Eriophorum*—II"; Setchell, "*Gymnogongrus torreyi*"; Woodward, "An Extension of Range of *Eatonia pubescens*"; Bartlett, "*Polygonum exsertum* in Massachusetts."

Torreya, April:—Harper, "Some Noteworthy Stations for *Pinus palustris*"; Murrill, "Terms applied to the Surface and Surface Appendages of Fungi"; King, "Experiment to show that the Absence of Light alone will prevent the Process of Photosynthesis"; Parish, "Birds and Mistletoe—a Correction"; Cockerell, "The Name *Melampodium*."

Torreya, May:—Schneider, "The Classification of Lichens"; Lloyd, "The Course of the Pollen Tube in *Houstonia*—a Preliminary Note";—Reichling, "Contributions to the Recorded Fungus and Slime-mould Flora of Long Island"; Berry, "Three Cotyledons in *Juglans*"; Ellis, "A New *Rosellinia* [*R. bakeri*] from Nicaragua"; Underwood, "A Much-named Fern [*Microstaphyla moorei*]."

Torreya, June:—Greene, "Some *Ptelea* Segregates"; Yatsu, "Cytological Differences between the *Palmella* and Filamentous Forms of *Stigeoclonium*"; Parish, "Flowering of *Yucca australis*"; Underwood, "*Botrychium silaifolium* Presl"; Eggleston, "*Amelanchier arguta*"; Taylor, "Nature's Engrafting"; Gilg, "A New Genian from Bolivia"; Nash, "A Trio of Grasses New to the West Indies."

The first volume of the new series of "Contributions from the Gray Herbarium of Harvard University," extending from 1891 to 1903, has been completed by the recent issue of title page, index, errata, etc., compiled by Miss Day.

The following botanical papers are contained in vol. 19 of the *Transactions of the Kansas Academy of Science*:—Sayre, "Bibliography of the Loco Weed"; Speckman, "Dissemination and Germination of Seeds"; Schaffner, "Myxomycetes of Clay County, Kansas"; Crevecoeur, "Some Variations among some Kansas Wild Flowers"; Sayre, "Echinacea Roots"; Baker, "Notes on the Culture of Wild Flowers."

The recently issued *Sixteenth Annual Report of the Missouri Botanical Garden* contains the following botanical papers:—Hitchcock, "The Identification of Walter's Grasses"; Berger, "A Systematic Revision of the Genus *Cereus*"; Bush, "The North American Species of *Fuirena*," and "Two New Texas *Tradescantias*"; MacMenzie and Bush, "New Plants from Missouri"; Spaulding, "A Disease of Black Oaks caused by *Polyporus obtusus*"; von Schrenk, "Glassy Fir," "On the Occurrence of *Peronospora parasitica* on Cauliflower," and "Intumescences Formed as a Result of Chemical Stimulation"; Hedgcock, "A Disease of Cauliflower and Cabbage caused by *Sclerotinia*," and "A Disease of Cultivated Agaves due to *Colletotrichum*"; Life, "Vegetative Structure of *Mesogloia*"; Trelease, "Illustrations of a 'Strangling' Fig Tree"; and Harris, "The Dehiscence of Anthers by Apical Pores."

The Fifth Annual Report of the Michigan Academy of Science contains the following papers of botanical interest:—Beal, "Michigan Flora—Fern and Seed Plants Growing without Cultivation"; Chase, "Flora of Michigan—Diatomaceæ"; Bogue, "The Lichen Genus *Physcia*"; Beal, "How I know some of our Trees in Winter"; Clark, "The Limits of Difference in Specific and Subspecific Distinctions."

The opening fascicle (nos. 1-3) of *Montana Agricultural College Science Studies* contains:—Blankinship, "A Century of Botanical Explorations in Montana"; Blankinship, "Supplement to the Flora of Montana—Additions and Corrections," and Blankinship and Henshall, "Common Names of Montana Plants."